

GENERAL NOTES:

1. SPECIFICATIONS:

- A. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS AND/OR DESIGN DRAWINGS.
- B. AASHTO/AWS D1.5 "BRIDGE WELDING CODE" CURRENT EDITION.
- C. DESIGN DOCUMENT SPECIFICATIONS: AASHTO 17TH EDITION, 2002.

2. MATERIAL:

- A. MISCELLANEOUS MATERIAL NOTED ASTM A709 GR.36 MAY BE EITHER ASTM A709 GR.36, AASHTO M270 GR.36 OR ASTM A709 GR.50. ALL MATERIAL SHALL BE DOMESTIC.
- MAIN MATERIAL (W36x135 BEAMS) SHALL BE ASTM A709 GR.50(*H) AS NOTED ON DETAIL SHEETS. ALL MATERIAL SHALL BE DOMESTIC.
- B. ASTM A108 HEADED SHEAR STUDS SHALL COMPLY WITH AASHTO/AWS D1.5 CHAPTER 7. SHEAR STUDS TO MEET THE MECHANICAL PROPERTY REQUIREMENTS OF TYPE B OF TABLE 7.1. REFERENCE SUB-SECTION 501.3.04.I.3 OF THE GEORGIA 2001 STANDARD SPECIFICATIONS.
- C. ALL STEEL DESIGNATED THUS (*H) SHALL MEET THE CHARPY V-NOTCH TEST REQUIREMENTS AS SPECIFIED BY SECTION 851 OF THE GEORGIA 2001 STANDARD SPECIFICATIONS USING THE H FREQUENCY OF TESTING.

3. FABRICATION AND WORKMANSHIP:

- A. CLIP CORNERS OF ALL GUSSET (CONNECTION) PLATES AS NOTED ON DETAIL SHEETS. TERMINATE WELDS AS SHOWN IN THE WELD TERMINATION DETAIL ON THIS SHEET.
- B. ALL RE-ENTRANT CUTS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{4}$ " UNLESS NOTED.
- C. THE WEIGHTS SHOWN ON DETAIL SHEETS ARE GROSS WEIGHTS.
- D. ALL STUB DIMENSIONS FOR GUSSET (CONNECTION) PLATES ON BEAM DETAIL SHEETS ARE TAKEN FROM THE CL OF BEARING AT THE LEFT END OF THE BEAM.
- E. MARK WEIGHT OF THE BEAM DIRECTLY UNDER THE SHIPPING MARK.
- F. HEAT NUMBERS SHALL BE PRESERVED AND LEFT VISIBLE FOR INSPECTION.
- G. THE BOTTOM FLANGES OF THE BEAMS AT THE BEARING LOCATIONS SHALL BE SHOP STRAIGHTENED AS NECESSARY TO PROVIDE A UNIFORM CONTACT BETWEEN THE BEAM'S BEARING COMPONENTS AND THE BRIDGE SEAT (BENT CAP).

4. WELDING:

- A. WELDING AND WELD EXAMINATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT AASHTO/AWS D1.5 "BRIDGE WELDING CODE" AND WITH THE GEORGIA 2001 STANDARD SPECIFICATIONS SUB-SECTIONS 501.3.04.H AND 501.3.06.C.
- B. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
- C. TERMINATE GUSSET (CONNECTION) PLATE TO WEB WELDS $\frac{1}{4}$ " ($\pm \frac{1}{8}$ ") FROM CLIPPED CORNERS. TERMINATE GUSSET PLATE TO FLANGE WELDS $\frac{1}{4}$ " ($\pm \frac{1}{8}$ ") FROM CLIPPED CORNER AND FLANGE OR PLATE EDGE. SEE WELD TERMINATION THIS SHEET.

5. CLEANING AND PAINTING:

- A. ALL STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SSPC-SP6, "COMMERCIAL BLAST CLEANING".
- B. ALL STRUCTURAL STEEL EDGES TO BE PAINTED OR EDGES NOT ENCASED IN CONCRETE SHALL RECEIVE LIGHT GRINDING TO A RADIUS OF APPROXIMATELY $\frac{1}{16}$ " OR A SUITABLE CHAMFER.
- C. SHOP AND FIELD CONTACT (FAYING) SURFACES SHALL NOT BE PAINTED.
- D. ALL CLEANED STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF BROWN PRIMER WITH A MINIMUM DRY FILM THICKNESS OF 3.0 TO 5.0 MILS

- (1.) SHOP PAINTING SHALL BE PER SYSTEM VI (WATERBORNE) OF THE GEORGIA 2001 STANDARD SPECIFICATIONS SECTION 535 - PAINTING STRUCTURES.
- (2.) PAINT MATERIALS SHALL BE PER THE GEORGIA 2001 STANDARD SPECIFICATIONS SECTION 870 - PAINT.
- (3.) THE NO PAINT AREAS ON DETAILS ARE DIMENSIONED $1" \pm$ BEYOND CONCRETE CONTACT SURFACES AND AREAS ADJACENT TO FIELD WELDS.

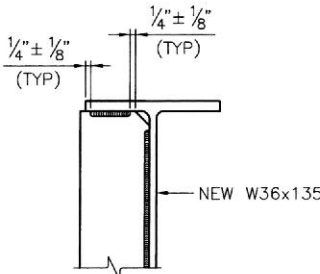
PAINT ABBREVIATIONS ON DETAIL SHEETS:

NPA ~ NO PAINT ALL AROUND
NPBS ~ NO PAINT BOTH SIDES
NPNS ~ NO PAINT NEAR SIDE
NPFS ~ NO PAINT FAR SIDE

DATE: 12-17-13

Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

Georgia DOT
Office of Bridge Design
By: CJD



GUSSET (CONN.) PLATES
TOP FLANGE SHOWN,
BTM FLANGE SIMILAR.

WELD TERMINATION DETAIL

STANDARD ABBREVIATIONS

AISW ~ AUGUSTA IRON & STEEL WORKS, INC.
BTM ~ BOTTOM
BRG ~ BEARING
CL or CL ~ CENTER LINE
CJP ~ COMPLETE JOINT PENETRATION
CLR ~ CLEARANCE
DOR ~ DIRECTION OF MILL ROLLING
FLG ~ FLANGE
(FS) ~ FAR SIDE
GDR ~ GIRDER
(NS) ~ NEAR SIDE
NPA ~ NO PAINT ALL AROUND
NPBS ~ NO PAINT BOTH SIDES
NPFS ~ NO PAINT FAR SIDE
NPNS ~ NO PAINT NEAR SIDE
PL ~ PLATE
TYP ~ TYPICAL
U.N. ~ UNLESS NOTED
MP ~ MAGNETIC-PARTICLE WELD TESTING
RT ~ RADIOGRAPHIC NONDESTRUCTIVE WELD EXAMINATION
UT ~ ULTRASONIC NONDESTRUCTIVE WELD EXAMINATION
VT ~ VISUAL WELD EXAMINATION
WP ~ WORK POINT

☒ APPROVED ☐ REVISE AND RESUBMIT

SHOP DRAWING CORRECTIONS OR COMMENTS MADE DURING REVIEW DO NOT RELIEVE THE CONTRACTOR OF COMPLIANCE WITH DRAWING AND SPECIFICATION REQUIREMENTS. THIS CHECK ONLY REVIEWS GENERAL CONFORMITY WITH THE PROJECT DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR'S PERFORMANCE DUTIES ARE STATED IN THE CONTRACT DOCUMENTS, AND ARE NOT MODIFIED BY THIS REVIEW OR COMMENTS MADE ON THESE SHOP DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND DIMENSIONS, FABRICATION PROCESS SELECTION, CONSTRUCTION TECHNIQUES, AND WORK COORDINATION AND PERFORMANCE OF ALL TRADES.

BROWDER + LEQUIZAMON AND ASSOCIATES, INC.
DATE 12/09/13 BY P.L.

FIELD BOLTS 3/4" # A307	
OPEN HOLES AS NOTED ON DETAIL SHEETS	
TYPE WELDING L.H. RODS OR SUBMERGED ARC	
AUGUSTA IRON & STEEL WORKS, Inc. P.O. BOX 212479 (30917) Phone 706-860-7719 3781 MARTINEZ BLVD. AUGUSTA, GA 30907	
GENERAL NOTES	
CUSTOMER: C.W. MATTHEWS	
WIDENING I-75 OVER MILL CREEK	
BRIDGE No. 2 LEFT & RIGHT	
GDOT PROJECT NO. NHS00-0000-00(931)	
WHITFIELD COUNTY, GEORGIA	
DESIGNED BY: Browder+Lequizon & Assoc. / Kimley-Horn & Assoc.	
REVISION DESCRIPTION	DATE
BY	DATE
DRAWN BY: JDS	DATE: 9/2013
CHECKED BY: GB	DATE: 11/2013
STEEL SPEC: SEE NOTE 2.	CONTRACT: 1403
	SHEET GN1